

PSR-ESS-ACC-CB1-NC-SC - Contact module



1221752

<https://www.phoenixcontact.com/us/products/1221752>

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Contact module for modular emergency stop switches with force-guided N/C contact for safety-related shutdown, in conjunction with appropriate evaluation unit suitable for use up to PL e (EN ISO 13849-1), SIL 3 (EN IEC 62061)

Product description

Phoenix Contact emergency stop switches are electromechanical switching devices with a safety function. They are used to safely shut down or stop machines and systems in order to prevent or minimize personal injury and property damage. The portfolio includes a modular system as well as a preconfigured solution. The modular emergency stop switch is comprised of the following components: - PSR-ESS-M0-H100 /...110 / ...120 actuator - PSR-ESS-ACC-CB1-C... module holder - PSR-ESS-ACC-CB1-NC-SC or PSR-ESS-ACC-CB1-SM-SC safe contact module Further contact modules can be combined if required.

Your advantages

- Modular system allows an efficient solution for individual applications
- Direct opening action in accordance with IEC 60947-5-1
- In applications with appropriate evaluation device suitable for use up to PL e (EN ISO 13849-1), SIL 3 (EN IEC 62061)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1221752 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN04 |
| Product key | DNA62Z |
| GTIN | 4063151310868 |
| Weight per piece (including packing) | 29.8 g |
| Weight per piece (excluding packing) | 25.2 g |
| Customs tariff number | 85365080 |
| Country of origin | DE |

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Technical data

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Product properties

| | |
|-------------------------|---------------------------------|
| Product type | Contact module |
| Product family | Modular emergency stop switches |
| Application | Safe shutdown |
| Recommended backup fuse | 16 A (SCPD Car. C) |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Protection class | II |
| Pollution degree | 3 |

Electrical properties

| | |
|-----------------------|---|
| Short-circuit current | 1000 A (conditional short-circuit current I_q) |
| Rated surge voltage | 4 kV |

Contact information

| | |
|-------------------------|--|
| Contact switching type | 1 force-guided N/C contact |
| Contact material | AgNi |
| Positive opening action | in accordance with EN 60947-5-1, Annex K |
| Actuating travel | 6 mm |
| Voltage | min. 5 V |
| | max. (see load limit current) |
| Current | min. 1 mA |
| | max. (see load limit current) |
| Electrical service life | 10^6 switching cycles |
| Mechanical service life | 10^6 cycles |
| Contact resistance | < 20 m Ω |
| Bouncing time | < 10 ms |

Load limit current in accordance with IEC/EN 60947-5-1

| | |
|--------------------------------|------------------|
| Standard | IEC/EN 60947-5-1 |
| Utilization category | AC15 A600 |
| Rated insulation voltage U_i | 600 V |
| Rated operating voltage U_e | 240 V |
| | 440 V |
| Rated operating current I_e | 3 A |
| | 1.6 A |
| Switching capacity | $10 \times I_e$ |

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| | |
|-------------------------------------|------------|
| Thermal continuous current I_{th} | 16 A |
| Utilization category | DC13 Q600 |
| Rated insulation voltage U_i | 600 V |
| Rated operating voltage U_e | 440 V |
| | 250 V |
| | 125 V |
| | 60 V |
| | 24 V |
| Rated operating current I_e | 0.12 A |
| | 0.2 A |
| | 0.4 A |
| | 1 A |
| | 2 A |
| Switching capacity | 1.1x I_e |

Connection data

Conductor connection

| | |
|---|--|
| Connection method | Screw connection |
| Note regarding the connection technology | 2 conductors possible per terminal point, with one conductor on each side of the screw |
| Conductor cross-section rigid | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.5 mm ² ... 2.5 mm ² |
| Flexible conductor cross-section with ferrule | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 20 ... 14 (rigid and flexible conductors without ferrules) |
| | 23 ... 14 (flexible conductors with ferrules) |
| Stripping length | 8 mm ... 9 mm |
| Tightening torque | 0.8 Nm ... 1 Nm |

Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Width | 9.1 mm |
| Height | 34.8 mm |
| Depth | 44.6 mm |

Material specifications

| | |
|--|----------------|
| Color (Housing) | red (RAL 3001) |
| Flammability rating according to UL 94 | V0 |
| Housing material | PA |

Environmental and real-life conditions

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Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -30 °C ... 85 °C (in conjunction with lighting module max. 65°C) |
| Ambient temperature (storage/transport) | -50 °C ... 85 °C |
| Maximum altitude | max. 2000 m (Above sea level) |
| Shock | 15g / 11 ms, in accordance with IEC 60068-2-27 |
| Vibration (operation) | 10 Hz ... 500 Hz, 0.35 mm amplitude, 5g, in accordance with IEC 60068-2-6 |

Mounting

| | |
|-------------------|------------------|
| Mounting type | Plug-in mounting |
| Mounting position | any |

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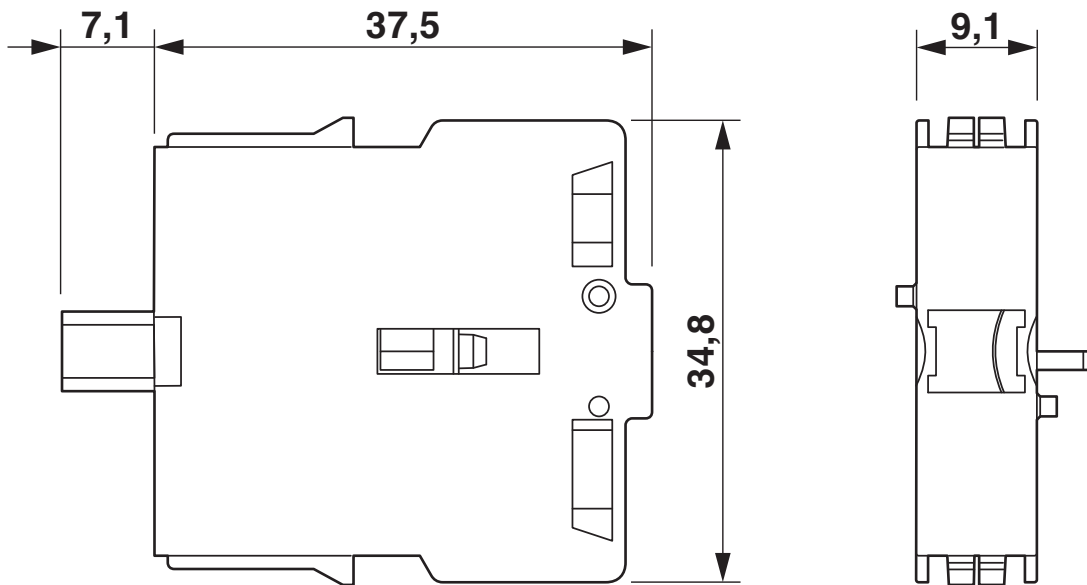


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Drawings

Dimensional drawing



Dimensions (in mm)

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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1221752>



UL Listed

Approval ID: E140324



cUL Listed

Approval ID: E140324



Functional Safety

Approval ID: B 029429 0031 Rev01



EAC

Approval ID: RU*DE*B*00073/21

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Classifications

ECLASS

| | |
|-------------------|----------|
| ECLASS-13.0 | 27371302 |
| ECLASS-15.0 ASSET | 27250101 |
| ECLASS-15.0 | 27371302 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000041 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122200 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.428 kg CO2e |
|---------|---------------|

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